

FORM PTO-1449
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use several sheets if necessary)APPLICANT
Welp, et al.

FILING DATE

GROUP

(37 CFR 1.98(b))

36872 U.S. PRO
10/053787
01/21/02**U.S. PATENT DOCUMENTS**

EXAM- INER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4	4	2	8	9	2	2		1/31/1984	Q. G. Hopkins, et al.	423	588	5/14/1982
	4	5	5	2	7	4	8		11/12/1985	C. T. Berglin, et al.	423	588	9/6/1983
	5	0	6	3	0	4	3		11/5/1991	E. A. Bengtsson, et al.	423	588	2/23/1990
	5	4	7	8	5	3	5		12/26/1995	G. Fierz, et al.	422/205	422/198	6/3/1994
	5	6	8	8	0	4	7		11/18/1997	A. Signer, et al.	366	337	8/7/1996
	5	7	6	3	6	8	7		6/9/1998	J. Morisaki, et al.	568/927	568/924	12/10/1996
	5	7	7	9	9	9	5		7/14/1998	H. Witt, et al.	422/215	422/224	9/25/1995
	6	0	0	5	1	4	3		12/21/1999	R. M. Machado, et al.	564/423	564/420	8/7/1998
	6	2	4	2	6	4	9		6/5/2001	H. Beckhaus, et al.	564/422	564/416	10/2/1998

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
DE	1	9	8	4	4	9	0	1		Abstract - German Patent				
		0	2	3	3	6	4	2		EPO				
	WO	9	8	5	5	2	1	6		PCT				X
	WO	0	0	3	5	8	5	2		PCT				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Grosz-Röll, F., J. Bättig and F. Moser, of Koch Engineering Company, Inc. entitled, "Gas/Liquid Mass Transfer with Static Mixing Units", Fourth European Conference on Mixing, April 27-29, 1982 pp 225-236
		Heiszwolf, Johan J., et al. "Hydrodynamic Aspects of the Monolith Loop Reactor", Chemical Engineering Science 56 (2001) 805-812
		Patrick, Robert H., et al. "Residence Time Distribution in Three-Phase Monolith Reactor" AIChE Journal, March 1995, Vol. 41, No. 3, pp 649-657
		Kawakami, Koei, et al., "Performance of a Honeycomb Monolith Bioreactor in a Gas-Liquid-Solid Three-Phase System", Ind. Eng. Chem. Res. 1989, 28, 394-400
		Hatzlantonou, Vasillos and Andersson, Bengt, "The Segmented Two-Phase Flow Monolithic Catalyst Reactor. An Alternative for Liquid-Phase Hydrogenations", Ind. Eng. Chem. Fundam. 1981, 23, 82-88
		Hatzlantonou, Vasillos, Andersson, Bengt, and Schoon, Nils-Herman, "Mass Transfer and Selectivity in Liquid-Phase Hydrogenation of Nitro Compounds in a Monolithic Catalyst Reactor with Segmented Gas-Liquid Flow", Ind. Eng. Chem. Process Des. Dev., 1988, 25, 964-970
		Irandoost, Said and Andersson, Bengt; Department of Chemical Reaction Engineering, Chalmers University of Technology, S-412 96 Gothenburg, Sweden and Bengtsson, Erik and Siverstrom; EKA Nobel AB, S-445 01 Surte, Sweden, "Scaling Up a Monolithic Catalyst Reactor with Two-Phase Flow", Ind. Eng. Chem. Res., 1989, 28, 1489-1493
		Irandoost, Said and Andersson, Bengt, "Mass Transfer and Liquid-Phase Reactions in a Segmented Two-Phase Flow Monolithic Catalyst Reactor", Chemical Engineering Science, Vol. 43, No. 8, pp. 1983-1988

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.